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L2 L1 and (element\$1 same attribute\$1)

1009 L2

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 6681223 B1

Using default format because multiple data bases are involved.

L14: Entry 1 of 8

File: USPT

Jan 20, 2004

US-PAT-NO: 6681223

DOCUMENT-IDENTIFIER: US 6681223 B1

TITLE: System and method of performing profile matching with a structured document

DATE-ISSUED: January 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sundaresan; Neelakantan	San Jose	CA		

US-CL-CURRENT: [707/6](#); [707/100](#), [707/3](#), [707/5](#), [715/513](#), [715/517](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 2. Document ID: US 6589291 B1

L14: Entry 2 of 8

File: USPT

Jul 8, 2003

US-PAT-NO: 6589291

DOCUMENT-IDENTIFIER: US 6589291 B1

TITLE: Dynamically determining the most appropriate location for style sheet application

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 6167410 A

L14: Entry 3 of 8

File: USPT

Dec 26, 2000

US-PAT-NO: 6167410

DOCUMENT-IDENTIFIER: US 6167410 A

TITLE: Document processing apparatus for adding predetermined design types to an original document

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 5907837 A

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L14: Entry 4 of 8

File: USPT

May 25, 1999

US-PAT-NO: 5907837

DOCUMENT-IDENTIFIER: US 5907837 A

**** See image for Certificate of Correction ****

TITLE: Information retrieval system in an on-line network including separate content and layout of published titles

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 5802381 A

L14: Entry 5 of 8

File: USPT

Sep 1, 1998

US-PAT-NO: 5802381

DOCUMENT-IDENTIFIER: US 5802381 A

TITLE: Text editor for converting text format to correspond to an output method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 5701500 A

L14: Entry 6 of 8

File: USPT

Dec 23, 1997

US-PAT-NO: 5701500

DOCUMENT-IDENTIFIER: US 5701500 A

TITLE: Document processor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5181162 A

L14: Entry 7 of 8

File: USPT

Jan 19, 1993

US-PAT-NO: 5181162

DOCUMENT-IDENTIFIER: US 5181162 A

TITLE: Document management and production system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 8. Document ID: US 4881197 A

L14: Entry 8 of 8

File: USPT

Nov 14, 1989

US-PAT-NO: 4881197

DOCUMENT-IDENTIFIER: US 4881197 A

TITLE: Document composition system using named formats and named fonts

h e b b g e e e f e ef b e

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 1. Document ID: US 6589291 B1

Using default format because multiple data bases are involved.

L15: Entry 1 of 11

File: USPT

Jul 8, 2003

US-PAT-NO: 6589291

DOCUMENT-IDENTIFIER: US 6589291 B1

TITLE: Dynamically determining the most appropriate location for style sheet application

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boag; Scott A.	Woburn	MA		
Hind; John R.	Raleigh	NC		
Topol; Brad B.	Apex	NC		
Wesley; Ajamu A.	Raleigh	NC		

US-CL-CURRENT: [715/513](#); [715/500](#), [715/501.1](#), [715/517](#)

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sealed Refs](#) [Attachments](#) [Claims](#) [KVMC](#) [Draw Desc](#) [Image](#)

☐ 2. Document ID: US 6549935 B1

L15: Entry 2 of 11

File: USPT

Apr 15, 2003

US-PAT-NO: 6549935

DOCUMENT-IDENTIFIER: US 6549935 B1

TITLE: Method of distributing documents having common components to a plurality of destinations

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sealed Refs](#) [Attachments](#) [Claims](#) [KVMC](#) [Draw Desc](#) [Image](#)

☐ 3. Document ID: US 6161114 A

L15: Entry 3 of 11

File: USPT

Dec 12, 2000

US-PAT-NO: 6161114

DOCUMENT-IDENTIFIER: US 6161114 A

**** See image for Certificate of Correction ****

TITLE: Design engine for fitting content to a medium

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw Desc	Image
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☐ 4. Document ID: US 6023714 A

L15: Entry 4 of 11

File: USPT

Feb 8, 2000

US-PAT-NO: 6023714

DOCUMENT-IDENTIFIER: US 6023714 A

TITLE: Method and system for dynamically adapting the layout of a document to an output device

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw Desc	Image
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☐ 5. Document ID: US 5956737 A

L15: Entry 5 of 11

File: USPT

Sep 21, 1999

US-PAT-NO: 5956737

DOCUMENT-IDENTIFIER: US 5956737 A

TITLE: Design engine for fitting content to a medium

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw Desc	Image
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☐ 6. Document ID: US 5907837 A

L15: Entry 6 of 11

File: USPT

May 25, 1999

US-PAT-NO: 5907837

DOCUMENT-IDENTIFIER: US 5907837 A

**** See image for Certificate of Correction ****

TITLE: Information retrieval system in an on-line network including separate content and layout of published titles

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw Desc	Image
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☐ 7. Document ID: US 5903902 A

L15: Entry 7 of 11

File: USPT

May 11, 1999

US-PAT-NO: 5903902

DOCUMENT-IDENTIFIER: US 5903902 A

TITLE: Design engine with tree and component structure

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw Desc	Image
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☐ 8. Document ID: US 5895477 A

L15: Entry 8 of 11

File: USPT

Apr 20, 1999

US-PAT-NO: 5895477

DOCUMENT-IDENTIFIER: US 5895477 A

TITLE: Design engine for automatic layout of content

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5895476 A

L15: Entry 9 of 11

File: USPT

Apr 20, 1999

US-PAT-NO: 5895476

DOCUMENT-IDENTIFIER: US 5895476 A

TITLE: Design engine for automatic reformatting for design and media

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5701500 A

L15: Entry 10 of 11

File: USPT

Dec 23, 1997

US-PAT-NO: 5701500

DOCUMENT-IDENTIFIER: US 5701500 A

TITLE: Document processor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5323312 A

L15: Entry 11 of 11

File: USPT

Jun 21, 1994

US-PAT-NO: 5323312

DOCUMENT-IDENTIFIER: US 5323312 A

TITLE: Specific layout structure generating method and structured document layout processing and device for carrying out the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw Desc	Image
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Search Results - Record(s) 1 through 8 of 8 returned.☐ 1. Document ID: US 6721747 B2**Using default format because multiple data bases are involved.**

L17: Entry 1 of 8

File: USPT

Apr 13, 2004

US-PAT-NO: 6721747

DOCUMENT-IDENTIFIER: US 6721747 B2

TITLE: Method and apparatus for an information server

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lipkin; Daniel S.	Belmont	CA		

US-CL-CURRENT: 707/10; 707/100, 707/200, 707/3, 707/8, 709/200, 709/202, 709/217, 709/225,
715/501.1, 715/513, 715/523

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6589291 B1

L17: Entry 2 of 8

File: USPT

Jul 8, 2003

US-PAT-NO: 6589291

DOCUMENT-IDENTIFIER: US 6589291 B1

TITLE: Dynamically determining the most appropriate location for style sheet application

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6584480 B1

L17: Entry 3 of 8

File: USPT

Jun 24, 2003

US-PAT-NO: 6584480

DOCUMENT-IDENTIFIER: US 6584480 B1

TITLE: Structured documents in a publishing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6542912 B2

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L17: Entry 4 of 8

File: USPT

Apr 1, 2003

US-PAT-NO: 6542912

DOCUMENT-IDENTIFIER: US 6542912 B2

TITLE: Tool for building documents for commerce in trading partner networks and interface definitions based on the documents

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw Desc	Image
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☐ 5. Document ID: US 6504554 B1

L17: Entry 5 of 8

File: USPT

Jan 7, 2003

US-PAT-NO: 6504554

DOCUMENT-IDENTIFIER: US 6504554 B1

**** See image for Certificate of Correction ****

TITLE: Dynamic conversion of object-oriented programs to tag-based procedural code

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw Desc	Image
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☐ 6. Document ID: US 6377956 B1

L17: Entry 6 of 8

File: USPT

Apr 23, 2002

US-PAT-NO: 6377956

DOCUMENT-IDENTIFIER: US 6377956 B1

TITLE: Automatically configuring product manual by binding document objects in logical structure to proper versions of component documents in a document database

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw Desc	Image
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☐ 7. Document ID: US 6230173 B1

L17: Entry 7 of 8

File: USPT

May 8, 2001

US-PAT-NO: 6230173

DOCUMENT-IDENTIFIER: US 6230173 B1

TITLE: Method for creating structured documents in a publishing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw Desc	Image
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☐ 8. Document ID: US 5669005 A

L17: Entry 8 of 8

File: USPT

Sep 16, 1997

US-PAT-NO: 5669005

DOCUMENT-IDENTIFIER: US 5669005 A

TITLE: System for automatically embedding or incorporating contents added to a document

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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1 [Understanding users II: A qualitative assessment of the efficacy of UML diagrams as a form of graphical documentation in aiding program understanding](#)

Scott Tilley, Shihong Huang

October 2003 **Proceedings of the 21st annual international conference on Documentation**Full text available: pdf(274.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Graphical documentation is often characterized as an effective aid in program understanding. However, it is an open question exactly which types of graphical documentation are most suitable for which types of program understanding tasks (and in which specific usage contexts). The Unified Modeling Language (UML) is the de facto standard for modeling modern software applications. This paper describes an experiment to assess the qualitative efficacy of UML diagrams in aiding program understanding. ...

Keywords: Unified Modeling Language (UML), assessment, graphical documentation, program understanding

2 [Differences between versions of UML diagrams](#)

Dirk Ohst, Michael Welle, Udo Kelter

September 2003 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European software engineering conference held jointly with 10th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 28 Issue 5Full text available: pdf(202.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper addresses the problem of how to detect and visualise differences between versions of UML documents such as class or object diagrams. Our basic approach for showing the differences between two documents is to use a unified document which contains the common and specific parts of both base documents; the specific parts are highlighted. The main problems are (a) how to abstract from modifications done to the layout and other (document type-specific) details which are considered irrelevant ...

Keywords: UML diagrams, configuration, design transaction, differences, fine-grained data model, software engineering environments, versions

3 [Transformations and Experiences: VXT: a visual approach to XML transformations](#)

Emmanuel Pietriga, Jean-Yves Vion-Dury, Vincent Quint

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**Full text available: pdf(165.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The domain of XML transformations is becoming more and more important as a result of the increasing number of applications adopting XML as their format for data exchange or representation. Most of the existing solutions for expressing XML transformations are textual languages, such as XSLT or DOM combined with a general-purpose programming language. Several tools build on top of these languages, providing a graphical environment. Transformations are however still specified in a textual way using ...

Keywords: XML transformations, XSLT, circus, visual programming languages, zoomable user interfaces

4 Software engineering: Elucidative Programming in open integrated development environments for Java

Thomas Vestdam

June 2003 **Proceedings of the 2nd international conference on Principles and practice of programming in Java**

Full text available:  pdf(450.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present an integration of tool support for internal documentation in the modern IDE Together J. The specific kind of internal documentation stems from the Elucidative Programming tradition where documentation and source code are separate entities tied together using hyperlinks. The tool supports the programmer in creating and managing internal documentation of Java source code. The hypertext-based documentation is presented in the IDE where a range of navigational features helps ...

Keywords: Java, documentation, elucidative programming, literate programming

5 The Pan language-based editing system

Robert A. Ballance, Susan L. Graham, Michael L. Van De Vanter

January 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1 Issue 1

Full text available:  pdf(2.43 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Powerful editing systems for developing complex software documents are difficult to engineer. Besides requiring efficient incremental algorithms and complex data structures, such editors must accommodate flexible editing styles, provide a consistent, coherent, and powerful user interface, support individual variations and projectwide configurations, maintain a sharable database of information concerning the documents being edited, and integrate smoothly with the other tools in the environment ...

Keywords: Ladle, Pan, coherent user interfaces, colander, contextual constraint, extension facilities, grammatical abstraction, interactive programming environment, logic programming, logical constraint grammar, reason maintenance, syntax-recognizing editor, tolerance for errors and anomalies

6 Extended programming in the large in a software development environment

Claus Lewerentz

January 1989 **Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments**, Volume 24, 13 Issue 2, 5

Full text available:  pdf(3.54 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper deals with the programming in the large part and the integration with related activities (programming in the small, variant control, support of technical documentation, responsibility and access control) of the software development and maintenance process. It is pointed out how these tasks are supported with an integrated and incremental software project support environment (IPSEN). Snapshots of a working session are used to

demonstrate the user interface and the funct ...

7 Customizing lotus notes to build software engineering tools

Jun Ma, Holger M. Kienle, Piotr Kaminski, Anke Weber, Marin Litoiu

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies conference on Collaborative research**

Full text available:  pdf(337.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many software engineering research tools are stand-alone applications that have trouble interoperating with other development tools and do not fit well into the software developers' established work processes. Our main hypothesis is that in order for new tools to be adopted effectively, they must be compatible with both existing users and existing tools. Typically, software engineering teams in an organization share a set of common applications for their development activities that are a permanen ...

Keywords: Lotus notes, Rigi, collaboration, customization, end-user programmable systems, tool adoption

8 PICS: Internet access controls without censorship

Paul Resnick, James Miller

October 1996 **Communications of the ACM**, Volume 39 Issue 10

Full text available:  pdf(291.57 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Book Review SGML CD: A Complete SGML Toolkit

Terry Dawson


March 1998 **Linux Journal**

Full text available:  html(5.14 KB) Additional Information: [full citation](#), [index terms](#)

10 Playing detective with full text searching software

Darrell R. Raymond, Heather J. Fawcett

September 1990 **ACM SIGDOC Asterisk Journal of Computer Documentation , Proceedings of the 8th annual international conference on Systems documentation**, Volume 14 Issue 4

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Searching large text databases often resembles detective work. We explored this notion with an experiment in which subjects used powerful full text searching software to solve problems about the Arthur Conan Doyle story The Hound of the Baskervilles. The experiment was conducted in two parts: in the first part subjects attempted to teach themselves about the software using only the documentation; in the second part, subjects used the software to answer questions such as

11 Documentation production from a formal database

Christopher Hartsough, Yuzo Yamamoto, E. David Callender

January 1982 **Proceedings of the 1st annual international conference on Systems documentation**

Full text available:  pdf(899.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper reports on an existing, operational prototype system, TG/TF2, for the generation of typeset quality documentation from a formal database. TG/TF2 directly supports the conceptual separation of system design, document content design, and document format design. Specifically, support for system design is supplied by Problem Statement Language/Problem Statement Analyzer (PSL/PSA), a development of the ISDOS Project at the University of Michigan. Document content design support is pro ...

12 Software and document engineering: Supporting document and data views of source code

Michael L. Collard, Jonathan I. Maletic, Andrian Marcus


November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**Full text available:  [pdf\(162.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper describes the use of an XML format to store and represent program source code. A new XML application, srcML (SouRCe Markup Language), is presented. srcML presumes a document view of source code where information about the syntactic structure is layered over the original source code document. The resultant multi-layered document has a base layer of all the original text (and formatting). The second layer is the syntactic information, derived from the grammar of the programming language, ...

Keywords: XML, abstract syntax tree, markup language, program analysis, source code

13 Navigating online information: a characterization of extralinguistic factors that influence user behavior

Brad Mehlenbacher

November 1992 **Proceedings of the 10th annual international conference on Systems documentation**Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The paper examines the extralinguistic factors that influence user behavior with online information systems. Extralinguistic factors include any interface features which are "outside" how users understand and comprehend written texts online. Extralinguistic features, therefore, are interface features that support (1) how users formulate their information goals or represent their tasks, (2) how users navigate to new or related topics of interest to them, and (3) how users quickly ...

14 Indexing and retrieval of scientific literature


Steve Lawrence, Kurt Bollacker, C. Lee Giles

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**Full text available:  [pdf\(985.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The web has greatly improved access to scientific literature. However, scientific articles on the web are largely disorganized, with research articles being spread across archive sites, institution sites, journal sites, and researcher homepages. No index covers all of the available literature, and the major web search engines typically do not index the content of Postscript/PDF documents at all. This paper discusses the creation of digital libraries of scientific literature on the web, incl ...

15 UNIX Emacs: a retrospective (lessons for flexible system design)

Nathaniel S. Borenstein, James Gosling

January 1988 **Proceedings of the 1st annual ACM SIGGRAPH symposium on User Interface Software**Full text available:  [pdf\(842.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

UNIX Emacs is well-known and widely used as a text editor that has been extended in a remarkable number of directions, not always wisely. Because it is programmable in a powerful yet simple programming language, Emacs has been used as a development tool for the construction of some remarkably complex user-oriented programs. Indeed, it has served as both a user interface management system and a user interface toolkit, though it was designed as neither. In this paper, we discuss the features ...

16**Web content accessibility guidelines 1.0**

Wendy Chisholm, Gregg Vanderheiden, Ian Jacobs

July 2001 **interactions**, Volume 8 Issue 4

Full text available:  [pdf\(471.98 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 How practical is practical SGML?

Robert J. Glushko


May 1996 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 20 Issue 2

Full text available:  [pdf\(460.54 KB\)](#) Additional Information: [full citation](#), [index terms](#)

18 New products

CORPORATE Linux Journal Staff


October 2001 **Linux Journal**, Volume 2001 Issue 90

Full text available:  [html\(6.93 KB\)](#) Additional Information: [full citation](#)

19 Syntax-directed editing of general data structures

Christopher W. Fraser

June 1981 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN SIGOA symposium on Text manipulation**, Volume 16 Issue 6

Full text available:  [pdf\(393.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Program editors help users create syntactically correct programs. Though such editors normally edit parse trees, applying similar techniques to other tree structures that need editing helps both users and implementors. This paper describes an editor that accepts a grammar describing a hierarchical data structure and allows the user to enter and edit arbitrary trees having this structure. It displays the pros and cons of this approach using instances of this editor that edit formatted documents ...

20 Specification of an object to object protocol in Abstract Syntax Notation One (ASN.1)

Jozsef A. Toth

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available:  [pdf\(566.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Object-oriented languages and environments have opened up a new way to develop software. Unfortunately, object-to-object transmittal of control and data has been highly indigenous to its particular domain; whether it be a compiler, interpreter or database. The DARPA Initiative for Concurrent Engineering (DICE) has specified a DICE Communications Channel (DCC) in which a heterogeneous environment, including object-oriented databases and subsystems, has driven the requirement for an integration ...

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